



Docket No.: 289275US0PCT

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

IN RE APPLICATION OF:

GROUP: 1796

Dieter BOECKH, et al.

SERIAL NO: 10/579,795

EXAMINER: MRUK, BRIAN P.

FILED: May 18, 2006

FOR: WATER-SOLUBLE COPOLYMERS OF MONOETHYLENICALLY  
UNSATURATED POLYALKYLENE OXIDE MONOMERS AND DIPOLAR  
MONOMERS CONTAINING AT LEAST ONE NITROGEN ATOM

**DECLARATION UNDER 37 C.F.R. § 1.132**

COMMISSIONER FOR PATENTS  
ALEXANDRIA, VIRGINIA 22313

Sir:

Now comes Dr. Dieter Boeckh who deposes and states that:

1. I am a graduate of University of Munich, Germany and received my PhD degree in the year 1986.
2. I have been employed by BASF SE for 23 years as a scientist in the field of research and development.
3. The following experiments were carried out by me or under my direct supervision and control.

The glass transition temperatures of the following copolymers and terpolymer were determined as follows.

**Copolymer 1**

A copolymer of 90 wt% acrylic ester of methyl-endcapped polyethylene glycol, having a molar mass of 1000, and 10 wt% vinyl imidazole was determined to have a glass transition temperature (T<sub>g</sub>) of -48°C and a melting point (mp) of 34°C.

Terpolymer 2

A terpolymer of 83 wt% acrylic ester of methyl-endcapped polyethylene glycol, having a molar mass of 1000, and 13 wt% N-vinyl pyrrolidone, and 3 wt% N-vinyl imidazole was determined to have a glass transition temperature (T<sub>g</sub>) of -51.6°C and a melting point (mp) of 32.7°C.

Copolymer 3

A copolymer of 82.6 wt% acrylic ester of methyl-endcapped polyethylene glycol, having a molar mass of 1000, and 17.4 wt% vinyl pyrrolidone was determined to have a glass transition temperature (T<sub>g</sub>) of -62°C and a melting point (mp) of 28.4°C.

4. The undersigned petitioner declares further that all statements made herein of his own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of this application or any patent issuing thereon.

5. Further deponent saith not.

Customer Number

22850

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(OSMMN 05/06)



Signature

22<sup>nd</sup> March 2010

Date